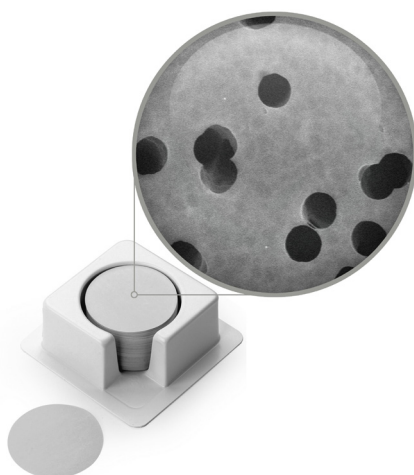


POLYCARBONATE TRACK ETCH (PCTE) MEMBRANE FILTERS



APPLICATIONS

- Chemotaxis (PVP-Free)
- Epifluorescence
- Cytology
- Cell biology (PVP-Free)
- Venting (PVP-Free)
- Microscopy
- Erythrocyte deformability
- Organic halide adsorption determination (AOX)

With controlled pores, low extractable and binding levels, and a smooth surface, these durable polycarbonate track etch (PCTE) membrane filters allow for rapid cell migration, microbial growth, and reduced incubation times.

PCTE membranes are available with a variety of configurations: **Hydrophilic PCTE** membranes are coated with PVP to enhance the filter's ability to process aqueous and alcoholic samples.

Hydrophobic PCTE filters are PVP-free and ideal for chemotaxis, cell studies, and venting applications.

AOX PCTE membranes are ideally suited for the detection of man-made pollution in groundwater and wastewater (organic halide adsorption determination) due to exceptionally low protein-binding/extractable levels and precisely defined pores. These filters are also suited for a wide range of microbiology, petroleum, and chemical applications.

SPECIFICATIONS

GENERAL

Sterilization	Gamma Irradiation, EtO, Autoclave
USP Class VI Test	Passed
Nominal Thickness	3- 24 μm
BSA Protein Binding	<5 $\mu\text{g}/\text{cm}^2$
Max. Operating Temp.	284°F (140°C)
Burst Strength	10 psi (0.7 bar)
pH Range	4-8
Sealing Compatibility	Ultrasonic, Heat, Radio Frequency, Insert Molding

PERFORMANCE BY PORE SIZE

	Air Flow Rate ¹	H ₂ O Flow Rate ²	Bubble Point (psi) ³
0.01 μm	0.0075	0.1	NA
0.03 μm	0.075	0.2	NA
0.05 μm	0.37	0.4	50.0
0.08 μm	0.75	0.6	38.0
0.10 μm	1.50	2.5	30.0
0.22 μm	3.00	10	20.0
0.40 μm	8.50	45 (33 AOX)	32.0
0.60 μm	7.50	60	9.0
0.80 μm	18.00	90	7.0
1.00 μm	20.00	130	6.0
2.00 μm	16.50	300	3.0
3.00 μm	37.50	440	2.0
5.00 μm	30.00	700	1.2
8.00 μm	30.00	1,000	0.7
10.00 μm	34.50	1,150	0.5
12.00 μm	63.50	1,250	0.4
14.00 μm	63.50	1,400	0.2
20.00 μm	11.00	1,000	<1.0
25.00 μm	33.00	<1,000	Not Tested
30.00 μm	50.00	<1,200	Not Tested

¹ Measured as L/min/cm²; $\leq 2 \mu\text{m}$ at 10 psi (0.7 kg/cm²), $\geq 3 \mu\text{m}$ at 5 psi (0.35 kg/cm²)

² Measured as mL/min/cm² at 10 psi (0.7 kg/cm²)

³ Measured with isopropanol (IPA)